

Title (en)

Metal supported solid oxide fuel cell

Title (de)

Metallgestützte Festoxidbrennstoffzelle

Title (fr)

Pile à combustible d'oxyde solide à support métallique

Publication

**EP 2031684 A3 20091223 (EN)**

Application

**EP 08014820 A 20080821**

Priority

DK PA200701242 A 20070831

Abstract (en)

[origin: EP2031684A2] A reversible solid oxide fuel cell obtainable by a method comprising the steps of: - providing a metallic support layer; - forming a cathode precursor layer on the metallic support layer; - forming an electrolyte layer on the cathode precursor layer; - sintering the obtained multilayer structure; - in any order conducting the steps of: - forming a cathode layer by impregnating the cathode precursor layer, and - forming an anode layer on the electrolyte layer; characterised in that the method further comprises prior to forming said cathode layer, - impregnating a precursor solution or suspension of a barrier material into the metallic support layer and the cathode precursor layer and subsequently conducting a heat treatment.

IPC 8 full level

**H01M 4/90** (2006.01); **H01M 4/88** (2006.01); **H01M 8/02** (2006.01); **H01M 8/12** (2006.01)

CPC (source: CN EP US)

**H01M 4/8621** (2013.01 - CN); **H01M 4/8889** (2013.01 - CN EP US); **H01M 4/9033** (2013.01 - CN EP US); **H01M 4/9066** (2013.01 - CN EP US); **H01M 8/1226** (2013.01 - CN EP US); **H01M 8/1246** (2013.01 - CN); **H01M 8/186** (2013.01 - CN); **H01M 4/8621** (2013.01 - EP US); **H01M 8/1246** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2031684 A2 20090304**; **EP 2031684 A3 20091223**; **EP 2031684 B1 20160810**; AU 2008207643 A1 20090319; AU 2008207643 B2 20120209; CA 2639188 A1 20090228; CN 101378133 A 20090304; CN 105006576 A 20151028; DK 2031684 T3 20161205; EP 2662917 A1 20131113; EP 2662918 A1 20131113; JP 2009059697 A 20090319; JP 5213589 B2 20130619; KR 101663083 B1 20161006; KR 20090023252 A 20090304; RU 2008134993 A 20100310; RU 2480865 C2 20130427; US 2009061279 A1 20090305; US 8298721 B2 20121030

DOCDB simple family (application)

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